Vipul Chaskar

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WORK EXPERIENCE:

Associate Software Engineer **Veritas Technologies LLC** Jun 2015 - Jun 2017

- Developed REST APIs to interact with Velocity appliance on customer premises and modules on appliance to manage logs and communicate with management services in cloud.
- Developed parts of the workflows pertaining to NFS/CIFS share management, storage of relevant metadata and communication with agents on workload servers.
- Wrote shell scripts to configure application and system settings during install/boot time.
- Performed testing with robot framework and end-to-end Jenkins CI/CD pipeline.
- Was part of the Security Response Team and largely drove the efforts for mitigating Input Validation attacks.
- Received Veritas applause awards twice for exceptional perseverance.

EDUCATION:

M.S. Computer Science **State University of New York at Binghamton** Aug 2017 - May 2019 (expected)
GPA: 4.0

- Courses: Distributed Systems, Computer Architecture, Programming Languages

B.E. Information Technology **Pune Institute of Computer Technology**, Pune, India Aug 2011 - May 2015
GPA: 3.64

- Selected coursework: Computer Networking, Artificial Intelligence, Data structures & Algorithms, Operating systems, Database systems, Information Retrieval, Software Engineering.
- Was the Class Representative, Member of students association and IEEE.

PROJECTS:

nMASE: A Search Engine for Network Trace (C, Python and Django framework)
- A search engine which captures, processes, indexes network traffic and enables network admins to quickly find required and interesting information in it with NLP queries and ranked results.
- Published paper in International Journal of Science and Research, August 2016.

Microprocessor pipeline simulator (Java)
- A simulator of modern multi-datapath, out-of-order execution pipeline which takes a sequence of assembly instructions and shows cycle-by-cycle execution. Implements multiple functional units, load store queue, reorder buffers, register renaming, issue queue, flags and support for branching and memory instructions.

Distributed, fault-tolerant, highly available key-value database (Python)
- An eventually-consistent distributed key-value database like Cassandra. Implements read repair and hinted handoff.

Equation Solver as a Service (Java, Python and Haskell)
- A REST API which accepts a picture of a linear equation(s) or mathematical expressions, extracts the equation from picture, solves it, and returns the result.

College Yearbook (JSP and MySQL)
- A web platform for college alumni to share their memories in the form of photos with their batchmates.

Company Finance Management System (VB.NET and Oracle database)
- A complete application for handling and tracking financial transactions of an organisation.

LANGUAGES AND TECHNOLOGIES:

Python, Java, C, SQL, Shell scripting, REST, Robot framework, MongoDB, Django, Flask, Apache tomcat, Cloud, Virtualization, Gradle, Jenkins CI/CD, TCP/IP.

ACHIEVEMENTS:

- Best project award from Quick Heal and first in paper presentation during competitions in undergrad.
- Completed online courses ‘Design and Analysis of Algorithms’ and ‘Machine Learning’ from Coursera.